

THE CLAIMS

1. (Previously presented) A method of operating a radio frequency communication system having a receiver portion circuitry and transmitter portion circuitry, the method comprising:

arranging the transmitter portion in a first transmitter configuration and the receiver portion in a first receiver configuration;

taking a first signal power measurement;

configuring the transmitter portion in a second transmitter configuration and the receiver portion in a second receiver configuration, wherein the first transmitter configuration is different than the second transmitter configuration and the first receiver configuration is different than the second receiver configuration;

performing a second signal power measurement; and

adjusting the operation of the receiver portion based upon the first signal power measurement and the second signal power measurement, wherein the adjusting comprises modifying at least one threshold related to processing of receive signal strength indicator data used in the operation of the radio frequency communication system.

2. (Original) The method of claim 1 wherein the arranging, taking, configuring, performing, and adjusting occur on a periodic basis.

3. (Original) The method of claim 1 wherein the radio frequency communication system communicates digital information.

4. (Original) The method of claim 1 wherein the receiver portion and the transmitter portion are located within the same integrated circuit.

5. (Previously presented) The method of claim 1 wherein the adjusting comprises calibrating at least one of a slope and a fixed offset of a receive signal strength indicator.

6. (Previously presented) The method of claim 1 wherein the adjusting comprises modifying the value of a receive signal strength indicator using an affine function.

7. (Original) The method of claim 6 wherein the affine function is implemented using a look-up table.

8. (Canceled)

9. (Previously presented) The method of claim 1 wherein the adjusting comprises modifying at least one of a receive signal strength indicator slope and a receive signal strength indicator fixed offset in an analog receive signal strength indicator circuit.

10. (Original) The method of claim 1 wherein the arranging provides a relatively lower level of radio frequency signal to the receiver portion.

11. (Original) The method of claim 10 wherein the relatively lower level of radio frequency signal corresponds to a signal power of less than approximately -90 dBm.

12. (Original) The method of claim 1 wherein the configuring provides a relatively higher level of radio frequency signal to the receiver portion.

13. (Original) The method of claim 12 wherein the relatively higher level of radio frequency signal corresponds to a signal power of greater than approximately -30 dBm.

14. (Original) The method of claim 1 further comprising: adjusting the operation of the transmitter portion based upon the first signal power measurement and the second signal power measurement.

15. (Previously presented) A radio frequency communication system comprising: transmitter circuitry for generating a radio frequency signal, the output of the transmitter circuitry coupled to a least one antenna;

switching circuitry having an input coupled to the at least one antenna, an output, and at least a first mode and a second mode of operation, the first mode of the switching circuitry passing a signal from the input to the output with a relatively lower level of attenuation, and the second mode of the switching circuitry passing a signal from the input to the output with a relatively higher level of attenuation;

receiver circuitry for accepting a radio frequency signal from the output of the switching circuitry, the receiver circuitry producing at least a receive signal strength indicator; and

the radio frequency communication system adjusting at least one characteristic of the receive signal strength indicator based on two signal power measurements using the switching circuitry and the transmitter circuitry.

16. (Original) The system of claim 15 wherein the adjusting is performed on a periodic basis.

17. (Original) The system of claim 15 wherein the radio frequency communication system communicates digital information.

18. (Original) The system of claim 15 wherein the receiver circuitry and the transmitter circuitry are located within the same integrated circuit.

19. (Previously presented) The system of claim 15 wherein the at least one characteristic comprises at least one of a slope and a fixed offset of the receive signal strength indicator.

20. (Original) The method of claim 15 wherein the adjusting comprises modifying the value of the receive signal strength indicator using an affine function.

21. (Original) The method of claim 20 wherein the affine function is implemented using a look-up table.

22. (Original) The method of claim 15 wherein the adjusting comprises modifying at least one threshold related to receive signal strength indicator data used in the operation of the radio frequency communication system.

23. (Previously presented) A radio frequency communication system comprising:

transmitter circuitry configured to be arranged in first and second configurations, wherein the first configuration is different than the second configuration;

switching circuitry; and

receiver circuitry for accepting a radio frequency signal from the switching circuitry, the receiver circuitry producing at least a receive signal strength indicator;

the radio frequency communication system adjusting at least one characteristic of the receive signal strength indicator based on two signal power measurements using the switching circuitry and the transmitter circuitry.